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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/989,563	11/19/2001	Joseph C. Sher	MICRON.113C1	2553
20995 7590 09/04/2007 KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET FOURTEENTH FLOOR IRVINE, CA 92614			EXAMINER TRA, ANH QUAN	
			ART UNIT 2816	PAPER NUMBER
			NOTIFICATION DATE 09/04/2007	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

jcartee@kmob.com
eOAPilot@kmob.com

TH

Office Action Summary

Application No.

09/989,563

Applicant(s)

SHER ET AL.

Examiner

QUAN TRA

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 4/19/2002.
- 2a) ☒ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 6) ☐ Other: _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7/13/07 has been entered. A new ground of rejection is introduced as necessitated by amendment.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-16 and 25-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Javanifard et al. (USP 5483486, Applicant submitted IDS) in view of Furumochi (USP 5473277, Applicant submitted IDS).

As to claim 1, Javanifrad et al. shows in figure 14 a circuit comprising: a reference circuit (316); a voltage regulator (318) electrically coupled to the reference circuit which generates a first control signal (REG); a control circuit (323 in figure 15) coupled to the voltage regulator circuit which generates a second control signal responsive to the first control signal; a charge pump (325, 330, 332 in figure 15) which receives the second control signal from the control circuit, the charge pump generating the test supply voltage (Vout). Thus, figure 14 shows all limitations of the claim except

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for the reference having a plurality of voltage regulation devices and at least one bypass device connected to at least one of the plurality of voltage regulation devices. However, Furumochi's figure 5 shows a reference circuit having plurality of voltage regulation devices (T1-T4) and at least one bypass device (SW0) connected to at least one of the plurality of voltage regulation devices. Furumochi's circuit having the advantage of varying the voltage level at the output node (OUT). Thus, it would have been obvious to one having ordinary skill in the art to use Furumochi's figure for Javanifrad et al.'s reference circuit for the purpose of generating a variable reference voltage, therefore controlling the output level of the charge pump. Thus, with the combination, it is inherent that the at least one bypass device (SW0(TN4)) is activated following the certification of the semiconductor device to bypass the at least one of the plurality of voltage regulation devices from the clamp circuit to lower the clamping threshold of the clamp circuit, the voltage regulator generating a third control signal responsive to the lowered clamping threshold of the clamp circuit to cause the charge pump to generate the operational supply voltage.

As to claim 2, Furumochi's figure 5 shows the plurality of voltage regulation devices comprise diodes.

As to claim 3, Furumochi's figure 5 shows the diodes are implemented through transistors.

As to claim 4, Furumochi's figure 5 further shows the bypass device comprising a fuse (FU) in series with a transistor (TN4).

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As to claim 5, Furumochi's figure 5 shows bypass device is activated by blowing the fuse.

As to claim 6, with the combination of the prior arts, it is inherent that value of the operational supply voltage is reduced for each voltage regulation device bypassed.

As to claim 7, with the combination of the prior arts, it is inherent that the voltage regulation devices limit the maximum voltage output of the clamp circuit.

As to claim 8, with the combination of the prior arts, it is inherent that the first control signal reduces the test supply voltage when the voltage regulation devices limit the output of the clamp circuit.

As to claim 9, with the combination of the prior arts, it is inherent that the second control signal reduces the operational supply voltage when the non-bypassed voltage regulation devices (T1, T2..) limit the output of the clamp circuit.

Claims 10-16 and 25 recite similar limitations of claims 1-9. Therefore, they are rejected for the same reasons (see further in figure 4).

As to claims 26-29, the combination of prior arts shows that the second control signal controls the charge pump in response to a change in voltage of the first control signal.

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to QUAN TRA whose telephone number is 571-272-1755. The examiner can normally be reached on 8:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew N. Richards can be reached on (571) 272-1736. The fax phone numbers for

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the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-1650.

A handwritten signature in black ink, appearing to read 'Quan Tra', with a stylized, cursive script.

QUAN TRA
PRIMARY EXAMINER
Art Unit 2816

August 21, 2007